



TASK FORCE WEB

NEP Integration Methods

9 July 2002

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Agenda

- Overview of Content Integration Types
 - Reference Portlets
 - External Content Portlets
 - Content Integration Portlets
- Demo of each type
- Minimum requirements for each type
- What not to implement...



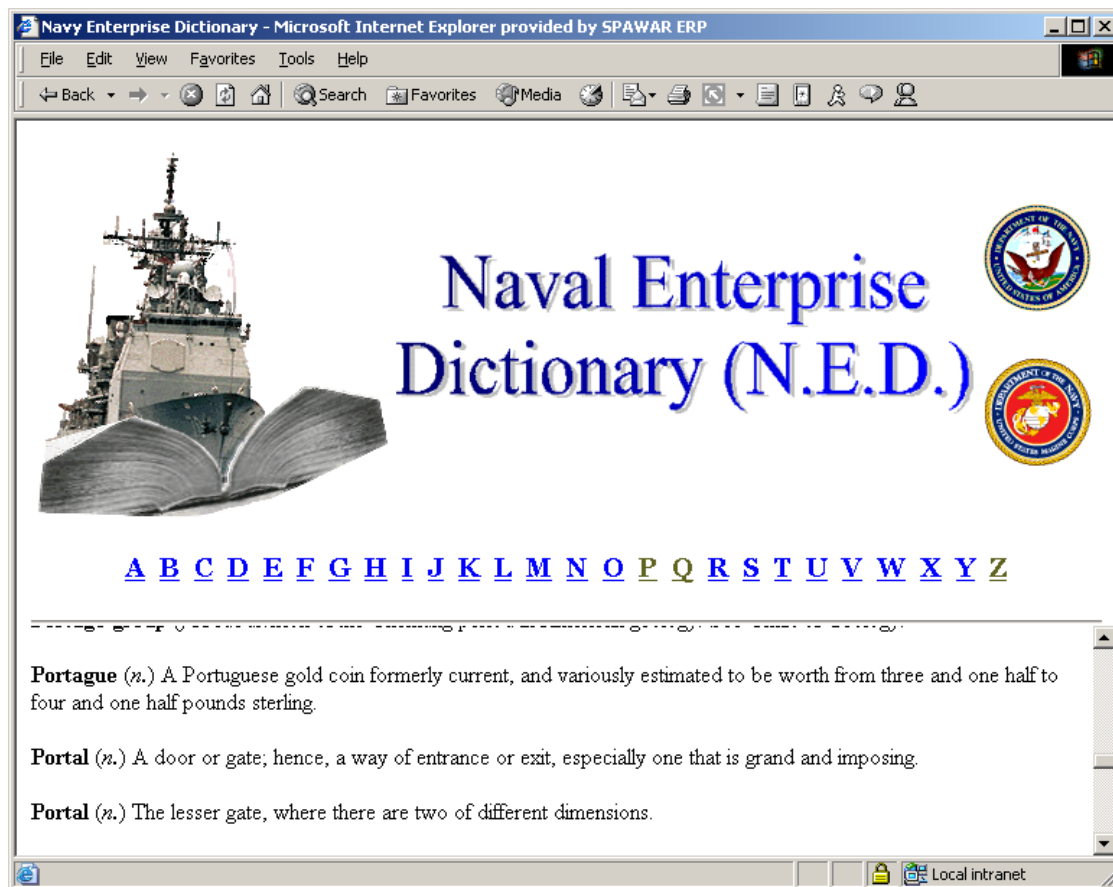
Overview of Content Integration Types

- The goal is to generate portlet content that behaves in a portal-compatible and user-friendly manner.
- The recommendations and requirements to meet this goal have been separated into “Content Integration Types”.



An Example Application

- This presentation uses the fictitious web application “Navy Enterprise Dictionary” as an example.
- We follow this application through a progression of content integration types





Integration Types

DON ENTERPRISE PORTAL: COMMAND CENTER - Microsoft Internet Explorer provided by SPAWAR ERP

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Address Book Chat

DON Enterprise Portal: Command Center Advanced Search go

Home Local WorkPlaces Current User: Info Store MyProfile ? help log-off

NED Example Workplace **NED Example Workplace** My Workplace New | Manage | Configure | Reset | ?

NED Full Size Application Info Refresh Close

NED Reference Portlet Info Close


[Naval Enterprise](#)

NED External Content Portlet Info Refresh Close

 **Naval Enterprise Dictionary (N.E.D.)**

A B C D E F G H I J K L M N O P Q R S
T U V W X Y Z

A () The first letter of the English and of many other alphabets. The capital A of the alphabets of Middle and Western Europe,

NED Content Integration Portlet Info Refresh Close

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Done Local intranet



Reference Portlets

- This is the minimal portlet implementation.
- It provides minimal integration between the portal and a web application/site (the “application”).
- The portlet content consists of a hyperlink (a “reference”) to the application. Clicking the hyperlink opens a new browser window containing the application.
- Optionally, the portlet may include portal look-and-feel integration.
- No modifications are required to an existing web-based application.
- You develop the portlet content and provide a URL.



Reference Portlet Example

DON ENTERPRISE PORTAL: COMMAND CENTER - Microsoft Internet Explorer provided by SPAWAR ERP

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

DON Enterprise Portal: Command Center

Home Local WorkPlaces Current User:

NED Example Workplace NED Example Workplace My Workplace

NED Full Size Application

NED External Content Portlet

NED Content Integration Portlet

NED Reference Portlet



[Naval Enterprise Dictionary \(N.E.D.\)](#)



Click

Naval Enterprise Dictionary (N.E.D.)

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Portague (n.) A Portuguese gold coin formerly current, and variously estimated to be worth from three and one half to four and one half pounds sterling.

Portal (n.) A door or gate; hence, a way of entrance or exit, especially one that is grand and imposing.

Portal (n.) The lesser gate, where there are two of different dimensions.



Reference Portlet Demo



External Content Portlets

- Key Characteristic is “Portal-Friendliness” (Iframe, URL Rewrite)
- The application is interactive in the portlet.
- Pop-up windows are allowed.
- Optionally, the portlet may include portal look-and-feel integration.
- You develop the portlet content and provide a URL



External Content Portlet Example

DON ENTERPRISE PORTAL: COMMAND CENTER - Microsoft Internet Explorer provided by SPAWAR ERP

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Address Book Chat

DON Enterprise Portal: Command Center [Advanced Search](#)

[Home](#) [Local](#) [WorkPlaces](#) [Current User:](#) [Info Store](#) [MyProfile](#) [? help](#) [log-off](#)

NED Example Workplace **NED Example Workplace** My Workplace [New](#) | [Manage](#) | [Configure](#) | [Reset](#) | [?](#)

NED Full Size Application

NED Content Integration Portlet

NED Reference Portlet

NED External Content Portlet



Naval Enterprise Dictionary (N.E.D.)

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

A () The first letter of the English and of many other alphabets. The capital A of the alphabets of Middle and Western Europe, as also the small letter (a), besides the forms in Italic, black letter, ...

Done Local intranet



External Content Portlet Demo



Content Integration Portlets

- Key Characteristic is “Portal-Friendliness” (Iframe, URL Rewrite) AND the portlet must include portal look-and-feel integration
- The application is interactive in the portlet.
- Pop-up windows are allowed.
- You develop the portlet content and provide a URL



Content Integration Portlet Example

DON ENTERPRISE PORTAL: COMMAND CENTER - Microsoft Internet Explorer provided by SPAWAR ERP

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Address Book Chat

DON Enterprise Portal: Command Center Advanced Search go

Home Local WorkPlaces Current User: InfoStore MyProfile ? help log-off

NED Example Workplace **NED Example Workplace** My Workplace New | Manage | Configure | Reset | ?

NED Full Size Application NED Reference Portlet NED External Content Portlet

NED Content Integration Portlet

Naval Enterprise Dictionary (N.E.D.)

A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z

A () The first letter of the English and of many other alphabets. The capital A of the alphabets of Middle and Western Europe, as also the small letter (a).

Done Local intranet



Content Integration Portlet Example 2

DON ENTERPRISE PORTAL: DON Enterprise - Microsoft Internet Explorer provided by SPAWAR ERP

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Address Book Chat

Infocon Status Unknown Current User: InfoStore : MyProfile : Help : LogOff

DON Enterprise Portal
EXCHANGE & TRANSFORM

Adv. Search go

Home Local **WorkPlaces**

NED Example Workplace NED Example Workplace My Workplace New | Manage | Configure | Reset | ?

NED External Content Portlet

NED Content Integration



**Naval Enterprise Dictionary
(N.E.D.)**

A B C D E F G H I J K L M N O P Q R S T U V W X
Y Z

Pacane (n.) A species of hickory. See Pecan.

Pacate (a.) Appeased; pacified; tranquil.

Local intranet



Content Integration Portlet Demo



Characteristics of Portlet Integration Types

See the Developer's Guide for more information.

Portlet Characteristic	Portlet Integration Types		
	Reference Integration	External Content Integration	Content Integration
UFS Output	HTML or XML/XSL		
Portal Look-and-Feel Integration	Recommended	Recommended	Required
Compatible with Portal Reverse Proxy (URL Rewrite)	Recommended	Required	
Portal-Controlled iFrame compatibility	Recommended	Required	
HTML BASE TAG for relative references vs. absolute references	Recommended	As required	
Portal Rendering of XML/XSL to HTML (XSLT)	As an external service call only	Supported in Portal XML Rendering Service (Xalan-Java version 2.2.D11), as an external service call	
Mobile Code (Applets, ActiveX)	Allowed within TFWeb policies and guidelines		
Client-Side Script	Supported	Supported with the following restrictions: Frame refs can not refer to ‘_top’ frame No dynamically generated URL links	
Application-Controlled Frames / iFrames	Supported	Supported with the following restrictions: Cannot target ‘_top’ frame. Frame refs should be named.	
Popup child windows	Supported	Supported, if in response to user interaction within the frame that launches the child window	
UNICODE Support	Recommended		



Reference Integration Minimum Requirements

- The User-Facing Service (UFS) must be available on a host that allows network access by the Portal.
- The URL of the UFS must be provided to the Navy Enterprise Portal (NEP) team, and the URL must be resolvable to an IP address using a domain name service available to the Portal.
- The developer must follow the TF Web submission process.



External Content Integration Minimum Requirements

- All requirements for reference integration.
- All UFS output must be delivered to the Portal (vs. directly to the Client).
- The portlet must include properly formatted URLs.
 - URLs in portlets must reference back to the portal
 - The UFS may create the correct URLs or, optionally, the Portal can perform “URL rewriting”.
- UFS output must be "Portal-friendly"

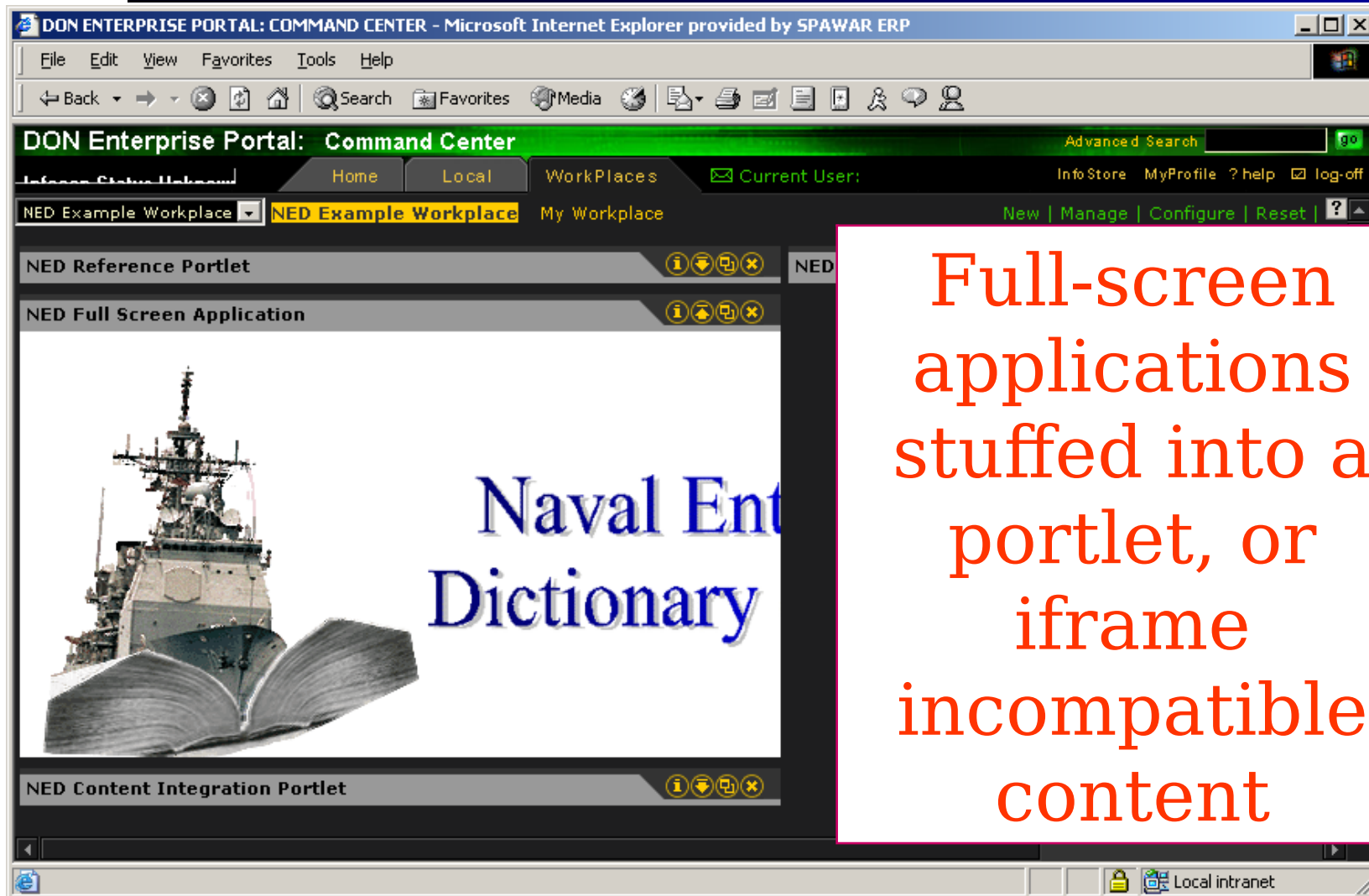


Content Integration Minimum Requirements

- All requirements for external content integration.
- A standard Portal cascading style sheet (CSS) must be used to format all UFS output.
- Resizable portlet panes for displaying content must be fully supported.



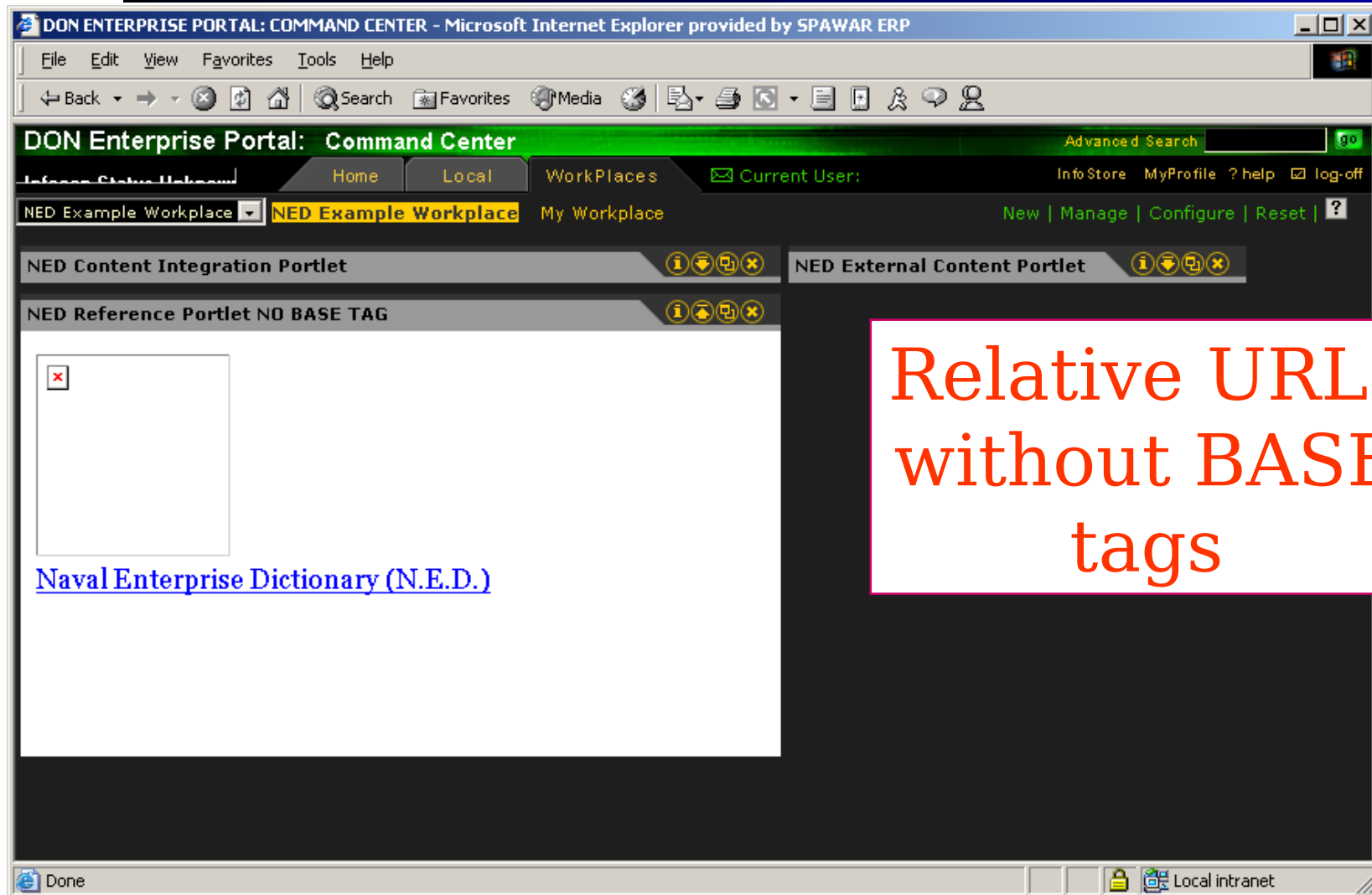
What not to implement...



Full-screen
applications
stuffed into a
portlet, or
iframe
incompatible
content



What not to implement...



Relative URLs
without BASE
tags



What not to implement...

